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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/666,521	09/20/2000	Jun Koyama	SEL 209	6933

7590 10/19/2005

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EXAMINER	
NGUYEN, KIMNHUNG T	
ART UNIT	**PAPER NUMBER**
2677	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/666,521	KOYAMA, JUN	
	Examiner	Art Unit	
	Kimnhung Nguyen	2677	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *Appeal Brief filed on 8/2/05* .

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-36* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-36* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. In view of the Appeal Brief filed on 8/2/05, PROSECUTION IS HEREBY REOPENED. New grounds of rejection set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

(1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,

(2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-3, 9-12, 18-22, 28-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamada et al. (US 5,990,629).

Regarding claims 1, 9, 19 and 28, Yamada et al. discloses in figs. 1, 5, an electronic device comprising an EL display device (11) including a thin film transistor (12); an EL element (11) with the pixel electrode as a cathode (11a, see col. 18, lines 66-67 and col. 19, lines 1-3); and an insulating layer (14c, see col. 7,lines 57-66) for sealing the EL element, an applying means (see drain driver 4) for applying an analog image signal to the EL element; and a correcting means for gamma correcting (2c, fig. 5) the analog image signal.

Regarding claims 2, 10, 20, 29, Yamada et al. discloses further comprising a memory for storing data for the gamma-correcting (see table memory section 2d, and 2e, see col. 10, lines 43-46, and 66-67 and col. 11, lines 1-3).

Regarding claims 3, 12, 22 and 31, Yamada et al. discloses a color filter being formed at position corresponding to the pixel electrode (see col. 22, lines 15-23).

Regarding claims 11, 18, 21 and 30, Yamada et al. discloses the EL display device is used in an electronic device selected form the group consisting of an EL display.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 5-7, 14-16, 24-26 and 33-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) in view of Yamazaki et al. (US 6,388,652).

Regarding claims 5-6,14-15, 24-25 and 33-34, Yamada et al. do not disclose the gamma-correcting amplifies a signal of red, or gamma-correcting attenuates a signal of blue or green. Yamazaki et al. discloses that wherein the gamma-correcting amplifies a signal of red and inherent of attenuates a signal of blue or green (see figure 14, column 18, lines 23-31). I would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the using the gamma-correcting amplifies a signal of red and inherent of attenuates a signal of blue or green as taught by Yamazaki et al. into the system of Yamada et al. because this would provide the analog signals have processed to complete, and these signals are transmitted to the source driving circuit of the system.

Regarding claims 7, 16, 26 and 35, Yamada et al. do not disclose the gamma-correcting is independently applied for each of signals of blue, green and red. Yamazaki et al. discloses the gamma-correcting is independently applied for each of signals of blue, green and red (see figure 14). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using gamma-correcting is independently applied for each of signals of blue, green and red as taught by Yamazaki et al. into the system of Yamada et al. because this would provide an improving the EL display having correction values for driving conditions of individual surface of the electron beam, by applying correction independently.

4. Claims 8, 17, 27 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) and Yamazaki et al. (US patent 6,388,652 cited by Applicant) as

applied to claims 1, 9, 19 and 28 above, and further in view of Yamazaki et al. (US patent 6,445,005).

Yamada et al. and Yamazaki (6,388,652) disclose every feature of the claimed invention as discussed above, however, they do not disclose the EL element comprises a luminescent layer comprising a polymer organic material. Yamazaki et al. (6,445,005) disclose an EL layer (45) is formed and made of polymer type organic material (see column 10, lines 37-40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using the an EL layer is formed and made of polymer type organic material as taught by Yamazaki et al. (6,445,005) into the device system of Yamazaki et al. (6,388,652) because this would provide a light of white color to be a light emitting layer (see Yamazaki et al., see column 10, lines 62-63), and therefore, increasing the brightness of the display.

5. Claims 4, 13, 23 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada et al. (US 5,990,629) and Yamazaki et al. (US patent 6,388,652) as applied to claims 1, 9, 19 and 28 above, and further in view of Choi et al. (US patent 6,583,577).

Yamada et al. and Yamazaki (6,388,652) disclose every feature of the claimed invention as discussed above, however, they do not disclose the El element comprises a first pixel comprising a blue luminescent layer, a second pixel comprising a green luminescent layer, and a third pixel comprising a red luminescent layer. Choi et al. disclose in figures 2 and 4 an El element comprises a first pixel (B) comprising a blue luminescent layer, a second pixel (G) comprising a green luminescent layer, and a third pixel (R) comprising a red luminescent layer

(see first to third EL diodes, see figure 4, see abstract). It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of using the first, second and third pixels comprising blue, green and red by EL diodes as taught by Choi et al. into the system of Yamada et al. and Yamazaki (6,388,652) because this would be independently driven without a complicatedly-designed data driving circuit, thereby simplifying the data driving circuit as well as reducing the product cost.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimnhung Nguyen
October 11, 2005

Lun-Yi Lao
Primary Examiner